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TOP SE[illegible]

OUT57476

P 042246Z
FM NPIC [redacted]
AFSSO USAFE
AFSSO PACAF
[redacted]
CNO
[redacted]
OPCEN
[redacted]
YWQLAZC/AFSSO SAC
YWQLAZC/AFSSO ACIC
YWQLAZC/AFSSO FTD
ZEM
T O P S E C R E T [redacted] CITE NPIC 6205.

multi

1966 JAN 4 23 34Z

25X1

Declassification Review by NGA/DoD 25X1

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SUBJECT: CAMERA INFORMATION FOR MISSION 1028-1 AND 1028-2.

1. THE MISSION UTILIZED TWO PAN CAMERAS, FOUR HORIZON CAMERAS, A STELLAR CAMERA, AND AN INDEX CAMERA.

5 JAN 1966

2. CAMERA DATA

A. MAIN UNITS	FORWARD	AFT	STAR HOR	PORT HOR
FOCAL LENGTHS(MM)	609.628	609.602	FWD 54.30	FWD 55.00
			AFT 54.83	AFT 54.60
FILTER(WRATTEN NO)	25	21	25	25
APERTURE	F3.5	F3.5	F8.0	F6.3
SLIT WIDTH(IN.)	.250	.175	1/100	1/100
EXPOSURE(SEC.)				
FILM	3404	3404	3404	3404
RESOLUTION(L/MM)	203	205	FWD NA	FWD NA
			AFT NA	AFT NA

TOP SE[illegible]

[redacted]

DISTRIBUTION 2

Cy No.	Office	Action
1	File	
2	OS	
	ADMIN	
	SEC ER	
	P & PS	
	OSD	
	[illegible]	
	FD	
	PSD	
	[illegible]	
345	TD	
	[illegible]	
	PAG	
	DIAXX-4	
	SPAD	
	NSA-LO	
	DIA-AP	
		25X1

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B. S/I UNITS		STELLAR	INDEX
FOCAL LENGTHS(MM)	PART 1	83.9819	38.2825
	PART 2	83.9252	38.2398
FILTER(WRATTEN NO)		NONE	21
APERTURE		F1.8	F4.5
EXPOSURE(SEC.)		2.0	1/500
FILM		3401	3400
RESOLUTION(L/MM)	PART 1		70
	PART 2		72
UNIT NUMBER	PART 1	D77/91/97	
	PART 2	D74/76/95	

3. LENS DISTORTION (PIN CUSHION) MM

A. MAIN LENS	3	2	1	0	359	358	357
FWD UNIT	.005	.002	.000	.000	.000	.002	.004
AFT UNIT	.004	.003	.001	.000	.001	.002	.005

B. HORIZON CAMERAS (MM)	FWD		AFT	
	PORT	STAR	PORT	STAR
(RADIAL) 10 DEGREES	.010	.020	.010	.020
20 DEGREES	.040	.040	.030	.050
(TANGENTIAL) MAX VECTOR	.030	.025	.030	.010

4. CAMERA ANGLES

		DEG.	MIN.
A. ANGLE BETWEEN PAN CAMERAS		29	42.16
B. DEPRESSION ANGLE BETWEEN HORIZON AND PAN CAMERAS	FWD STAR	15	11
	FWD PORT	15	29
	AFT STAR	15	50

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	AFT PORT	15	50
C. ANGLE BETWEEN STELLAR AND INDEX	PART 1	89	55.4
CAMERAS	PART 2	89	55.6

5. TIMING MARKS

FREQUENCY MARKS WILL APPEAR ON THE FILM AT A RATE OF 200 CYCLES PER SECOND.

6. IMAGE MOTION COMPENSATION DATE (CYCLE RATE(CPS), GROUND ANGULAR VELOCITY (GAV), AND PASSES WHERE USED).

REF. LEVEL		AMPL. LEVEL		PASSES
NO.	CPS. GAV.	NO.	CPS. GAV.	
8	.3221 .0291	3	.1280 .0116	1D1 THRU 5D1
8	.3221 .0291	2	.1415 .0128	6D1 THRU 68D2 & 71D1 THRU 110D1
7	.3383 .0306	3	.1280 .0116	69D1 THRU 69D3 & 114D1 THRU 142D1

7. PROGRAM TIME DATA

PASS	CAMERA ON TIME (ZULU TIME) DAY HR MIN SEC	PROGRAM ON TIME UP RAMP SEC	PROGRAM DURATION SEC
1D1	24 22 33 01	1197	40
5D1	25 04 40 57	1480	157
6D1	25 06 10 32	1348	262
6D2	25 06 16 03	1679	196
7AE	25 07 16 03	0	82
7D1	25 07 38 13	1162	539
8D1	25 09 12 40	1383	200
9AE	25 10 21 02	39	47

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9D1	25	10 48	03	1660	76
9D2	25	10 51	59	1895	68
14D1	25	18 22	32	1701	47
16D1	25	21 23	17	1654	37
17D1	25	23 06	27	2399	46
19D1	26	01 47	57	1197	207
20D1	26	03 18	45	1200	298
21D1	26	04 52	28	1377	49
21D2	26	04 55	15	1544	152
22D1	26	06 20	22	1205	231
22D2	26	06 25	39	1522	345
23D1	26	07 51	11	1208	177
23D2	26	07 57	04	1562	77
27AE	26	13 30	54	0	26
27D1	26	14 05	54	1914	135
29AE	26	16 32	29	0	26
31D1	26	20 05	07	1689	53
36D1	27	03 34	51	1450	124
36D2	27	03 54	33	2632	163
38D1	27	06 33	46	1299	160
38D2	27	06 38	23	1576	226
39D1	27	08 04	50	1318	127
39D2	27	08 07	55	1503	62
39D3	27	08 09	40	1608	69
41D1	27	11 07	38	1400	156

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41D2	27	11	18	48	2070	107
45D1	27	17	32	11	2698	135
46D1	27	18	45	18	1642	47
46D2	27	18	50	28	1952	91
47D1	27	20	17	40	1741	37
50D1	28	00	42	14	1287	82
52D1	28	03	46	20	1449	64
52D2	28	03	48	07	1556	144
53D1	28	05	14	44	1311	189
53D2	28	05	21	06	1692	61
53D3	28	05	24	47	1914	90
54D1	28	06	46	18	1363	186
54D2	28	06	52	23	1727	120
55D1	28	08	17	10	1372	194
57D1	28	11	19	50	1447	109
63D1	28	20	29	05	1750	39
67D1	29	02	27	17	1476	109
68D1	29	03	58	01	1479	229
68D2	29	04	14	19	2456	82
69D1	29	05	26	25	1402	219
69D2	29	05	31	48	1725	121
69D3	29	05	36	01	1978	104
70AE	29	06	35	15	90	72
71D1	29	08	28	41	1396	96
71D2	29	08	31	38	1572	47

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81D1	29	23	36	38	0	24
82D1	30	01	05	56	1380	97
82D2	30	01	08	17	1521	47
83D1	30	02	38	59	1523	168
84D1	30	04	09	24	1510	109
84D2	30	04	13	11	1737	195
84D3	30	04	22	38	2304	43
85D1	30	05	43	08	1695	344
86D1	30	07	08	44	1392	158
86D2	30	07	12	52	1639	62
87D1	30	08	42	17	1565	92
87D2	30	08	48	37	1946	47
88AE	30	09	51	27	277	47
88D1	30	10	11	26	1476	276
94D1	30	19	21	56	1871	54
95D1	30	20	52	44	1879	38
97D1	30	23	46	28	1423	81
97D2	30	23	57	59	2115	40
99D1	31	02	50	43	1600	168
100D1	31	04	20	24	1541	140
100D2	31	04	26	32	1910	188
101D1	31	05	50	52	1529	100
101D2	31	05	54	46	1764	232
102D1	31	07	24	13	1693	48
102D2	31	07	27	50	1911	61

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102D3	31	07	29	48	2029	75
103D1	31	08	50	39	1441	264
104D1	31	10	29	56	1961	180
105D1	31	12	04	01	2168	153
106AE	31	12	59	30	61	26
108AE	31	16	00	54	67	26
109D1	31	18	00	52	1826	47
110D1	31	19	32	11	1867	40
114D1	01	01	28	10	1537	82
115D1	01	03	01	42	1710	227
116D1	01	04	36	09	1939	313
116D2	01	04	44	23	2432	131
117D1	01	06	02	47	1699	77
117D2	01	06	04	48	1819	270
118D1	01	07	33	44	1718	212
119D1	01	09	02	04	1581	126
119D2	01	09	08	22	1960	92
121D1	01	12	12	26	2130	106
121D2	01	12	16	07	2351	93
126D1	01	19	43	19	1998	39
130D1	02	01	38	48	1583	127
131D1	02	03	11	48	1726	229
131D2	02	03	28	05	2703	86
132D1	02	04	45	28	1909	359
133AE	02	05	49	04	290	67

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133D1	02	06 13	20	1745	378
134D1	02	07 45	01	1811	211
135D1	02	09 15	25	1799	167
136D1	02	10 44	46	1724	123
142D1	02	19 53	39	2041	42

NOTE: DATA IS THE SAME FOR BOTH THE MASTER (FWD) AND SLAVE (AFT) UNITS.

8. TIME CORRELATION (MILLISECONDS)

PASS	CLOCK TIME	SYSTEM TIME	DIFFERENCE
9	228031.136	37240.3841	------
16	267844.225	77053.4753	.002
24	309785.034	32594.2863	.002
31	349490.531	72299.7851	.002
40	396900.538	33309.7938	.002
47	436691.121	73100.3781	.001
56	484091.391	34100.6493	.001
63	523693.097	73702.3561	.001
71	28860.285	29340.4567	.002
79	74066.017	74546.1890	.000
87	115971.406	30051.5781	.000
94	155671.329	69751.5010	.000
103	203047.342	30727.5135	.000
110	242734.721	70414.8919	.001
119	290118.380	31398.5499	.001
126	329793.839	71074.0078	.001

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135 377151.663 32031.8302 .002

142 416790.919 71671.0847 .001

NOTE: "DIFFERENCE" VALUES ARE MINUS FOR PASSES 16 THRU 71 AND PLUS FOR PASSES 110 THRU 142.

GP-1

T O P S E C R E T

-END OF MESSAGE-

(ALSO PASSED [redacted]

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